

Ryan Dundun

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Education

University of Wisconsin-Madison

Double Major: B.S in **Statistics** and **Economics**

- Double Minor: **Computer Science** and **Mathematics**

Madison, WI

Graduation: May 2019

Skills & Awards

- Experienced in: Python, R, Java
- Proficient in: JavaScript, Stata, HTML, CSS
- Spanish - Full working speaking and writing proficiency (Attended Milwaukee Spanish Immersion School)
- Powers-Knapp Scholar, University of Wisconsin-Madison (Private academic Scholarship)
- Division 1 Track and Field Athlete, University of Wisconsin-Madison
 - *Academic All-Big Ten Honoree*
 - *National NCAA Qualifier (400m Hurdles)*

Experience

Quad Graphics

Sussex, WI

Data Scientist and Forecaster

May 2018-September 2018

- Predicted/forecasted trends of business operations using time series forecasting (Programming language R).
- Created forecasting models by cleaning data with “Cooks Distance.” Used statistical tests to ensure model assumptions were met. Parameters for ARIMA order were chosen by minimizing AIC and BIC to find most accurate model. Macroeconomic data was web-scraped from FRED used as indicators. Entropy and statistical significance tests completed to find best indicators to further improve model accuracy using external regressors (VARMAX).
- Forecasted manufacturing sales and other time series with 3-6% mean absolute percentage error (MAPE).

Biomedical Data Science Research Program, University of Wisconsin-Madison

Madison, WI

Data Scientist for Department of Biostatistics and Medical Informatics

May 2017-September 2017

- Created an interactive web application enabling the user to interact with the data for better understanding
 - Interact with it now at: <https://dundun.shinyapps.io/shinyswallow/>
- Organized and cleaned patient data to prepare for statistical analysis
- Wrote server and user interface program in R to run a “Shiny” Application

Government Research Intern, MacIver Institute

Madison, WI

Fact-checking and Briefing

June 2016-December 2016

Personal Projects (Live and Online)

Stock Visualizer and Forecaster: <https://dundun.shinyapps.io/stockForecast/> (R/Shiny)

- Web-scrapes stock data. Decomposes stock time series into ‘seasonal’, ‘trend’, and ‘random’ components
- Uses those components as building blocks to forecast future prices using ARIMA time series forecasting

StockRank: www.EpsilonCoding.com (Python/Django/R/AWS)

- Allows user to search a stock and displays rankings from various credible sources

Epsilon AutoCheckout (JavaScript/Python/AWS)

- Chrome extension that collects user data, then auto clicks and auto fills forms accordingly

Biomedical Data interactive web app from 2017 research Internship above: <https://dundun.shinyapps.io/shinyswallow/> (R)

- Allows user to more easily understand and express complex data by choosing various variables in app

Leadership Experience

Chess Club UW

Founder/President

Fall 2015-Present

- Recruited 100+ active members since establishment in 2015. Solicit meetings and tournaments for membership

Statistics Club

Executive Board

Fall 2016-Present

- Organize events to tackle Kaggle challenges and improve student faculty relations

Powers-Knapp Scholar, University of Wisconsin-Madison

Private Academic Scholarship

Fall 2015-Present

Data Science Club

Member

Fall 2017-Present

For links to all the live online projects, or to learn more visit www.ryandundun.com